



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: : PATENT APPLICATION  
Stuart D. Hellring, et al. :  
Serial No. 10/627,776 : Group Art Unit:  
Filed: July 28, 2003 : Examiner: Not Assigned  
For: SILICA AND SILICA-BASED SLURRY : PPG Case No. 1673P1

INFORMATION DISCLOSURE STATEMENT


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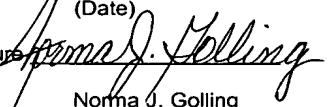
Sir:

The documents listed on the attached Form PTO-1449 are brought to the attention of the United States Patent and Trademark Office with respect to the application identified above in accordance with the provisions of 37 CFR 1.56, 1.97 and 1.98 before receipt of the first Office Action. Copies of the documents listed are enclosed herewith.

It is requested that the Examiner consider these documents and that they be made of record in the application.

Respectfully submitted,

  
CAROL A. MARMO, ESQUIRE  
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I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop DD, Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on <u>October 21, 2003</u> (Date) Signature <u></u> Norma J. Golling Typed or printed name of person mailing correspondence	
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Pittsburgh, Pennsylvania  
October 21, 2003



		Atty. Docket No. 1673P1	10/627,776
LIST OF CITATIONS BY APPLICANT (Use several sheets if necessary)		Applicant Stuart D. Hellring, et al.	
		Filing Date July 28, 2003	Group

**U.S. PATENT DOCUMENTS**

Exam. Init.		Document No.	Date	Name	Class	Subclass	Filing Date if appropriate
	AA	5,720,551	02/24/98	T. Shechter	366	147	
	AB	5,904,159	05/18/99	H. Kato, et al.	134	7	
	AC	5,980,775	11/09/99	S.K. Grumbine, et al.	252	79.1	
	AD	6,136,711	10/24/00	S.K. Grumbine, et al.	438	692	
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**FOREIGN PATENT DOCUMENTS**

		Document No.	Date	Country	Class	Subclass	Translation Yes No	
	AL	WO 00/39056	06.07.00	PCT			X	
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**OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)**

AR	ASTM D 2414-93 "Standard Test Method for Carbon Black--n-Dibutyl Phthalate Absorption Number"
AS	R.B. Anderson and P.H. Emmett, "Measurement of Carbon Black Particles by the Electron Microscope and Low Temperature Nitrogen Adsorption Isotherms", Journal of Applied Physics, Volume 19, April, 1948, pp. 367-373.
AT	ASTM D 1993-91 "Standard Test Method for Precipitated Silica-Surface Area by Multipoint BET Nitrogen Adsorption"

Examiner	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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## OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	French Standard NF T 45-007, "Primary Materials for the Rubber Industry: Precipitated Hydrated Silica", Section 5.12, Method A, pp. 66-76, November 1987
AS	Lee M. Cook, "Chemical Processes in Glass Polishing", Journal of Non-Crystalline Solids, 1990, 120, 152-171
AT	Y. Li and S.V. Babu, "Chemical Mechanisms in CMP of Cu and Ta Using Silica Abrasives," Fifth Annual CMP Symposium 2000, August 14, 2000, Lake Placid, New York

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## OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	Y. Li, A. Jindal and S.V. Babu, "Role of Chemicals and Abrasive Particle Properties in Chemical-Mechanical Polishing of Copper and Tantalum, Proc." The Electrochemical Society 198 <sup>th</sup> Meeting, Phoenix, Arizona, October 22-27, 2000
AS	ASTM Standards, Method A of D-280, Volume 06.02 (Reapproved 1987) "Standard Test Methods for Hygroscopic Moisture (and Other Matter Volatile Under the Test Conditions) in Pigments"
AT	John H. Perry, Chemical Engineers Handbook, 4 <sup>th</sup> Edition, McGraw-Hill Book Company, New York (1963), Library of Congress Catalog Card Number 6113168, pages 8-42 and 8-43

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<b>LIST OF CITATIONS BY APPLICANT</b> (Use several sheets if necessary)		Atty. Docket No.	10/627,776
		1963P1	
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AR	Warren L. McCabe and Julian C. Smith, "Unit Operations of Chemical Engineering", 3 <sup>rd</sup> Edition, McGraw-Hill Book Company, New York (1976) ISBN 0-07-044825-6, pages 844-845
AS	F.E. Albus, "The Modern Fluid Energy Mill," Chemical Engineering Progress, Volume 60, No. 6 (June 1964), pages 102-106
AT	Ralph K. Iler, "The Chemistry of Silica," 1979 John Wiley & Sons, Inc., New York, Chapter 5

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## OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	U.S. Serial No: 09/882,548 filed 06/12/02 "A SILICA-BASED SLURRY"
AS	U.S. Serial No. 60/401,131 filed 08/05/02 "A SILICA-BASED SLURRY COMPOSITION"
AT	U.S. Serial No. 60/401,108 filed 08/05/02 "CMP COMPOSITION AND SLURRY"

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